



ICR Corrections Update

- New JES event strip (p11.11)
- ICR correction from p11.11



P11.11.00 SmallTuple

■ Strip Sample

- Using runs > 161972 (as per Anna)
- Runs used:
 - 162006 - 163647 (whatever was reconstructed with p11.11 as of Sep. 16)
- Number of Events processed: 9,038,956
- Number of Events in smalltuple: 397,938
- data is in:
/rooms/kitchen/imperial/goussiou/p11.11

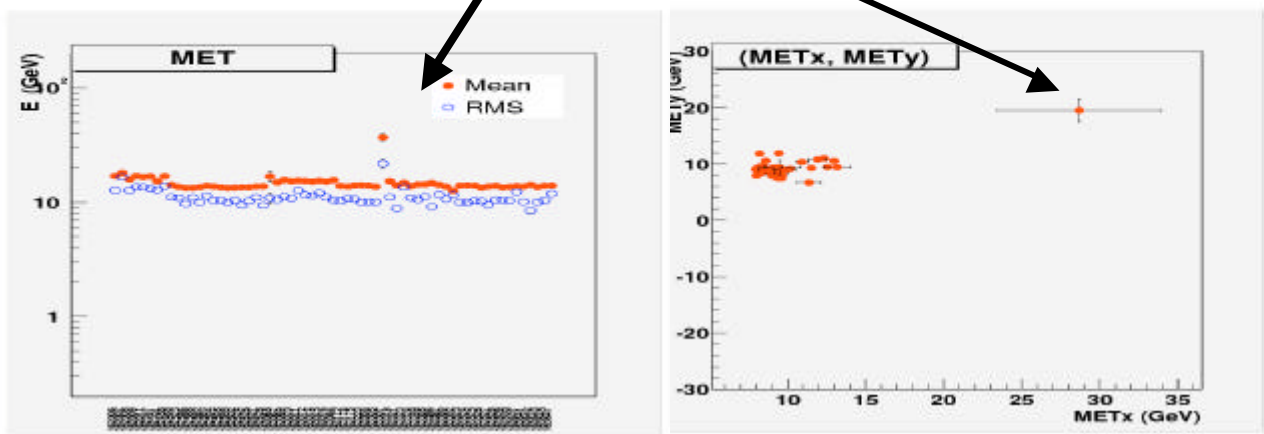
■ See full documentation at:

<http://home.fnal.gov/~odell/D0/JES/StreamDataIndex.html>

- started “restrip” including data processed up to Oct. 1 - about 10% more data (roughly)
- Should finish by this evening/tomorrow - will update area with latest files

Results of “bad run” Finder

- For the p11.11 Sep 16 strip I ran the “bad run finder”
 - Looks at average MET/run
 - Found 1 bad run: 163307



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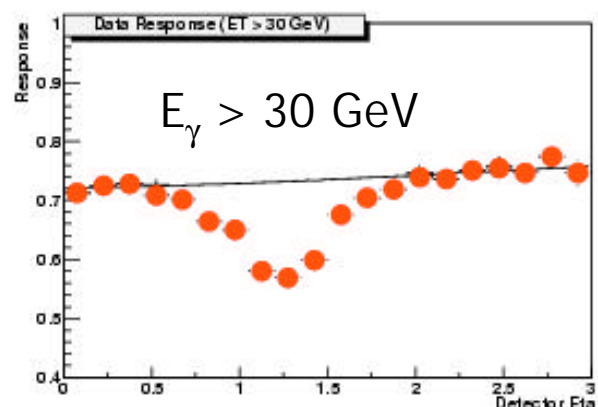
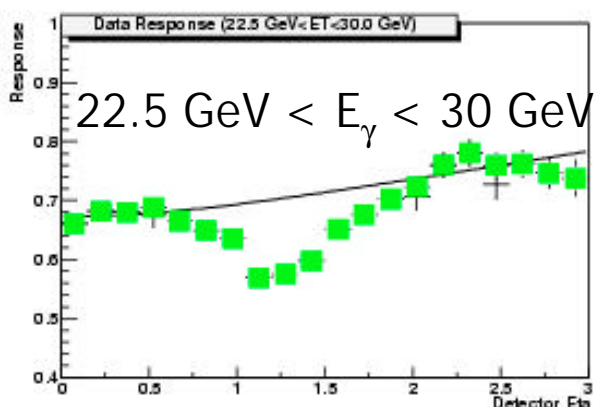
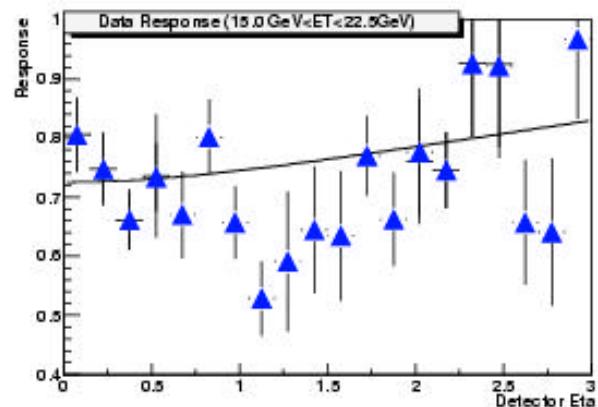
ICR correction for p11.11

- ICR correction - usual analysis
- Notable cuts
 - $|h| < 0.8$ for the photon
 - even though the L1 extends further, I did not want to use a photon in the ICR region. I should look at the photon $1.8 < |h| < 2.4$ separately (?)
 - No HCF cut
 - Used EMScale v 2.0
 - Used JetCor v. 2.1 for cryo factor/offset

ICR correction for p11.11

- Data Energy Bins with Cosh(E) fit overlaid

$15 \text{ GeV} < E_\gamma < 22.5 \text{ GeV}$



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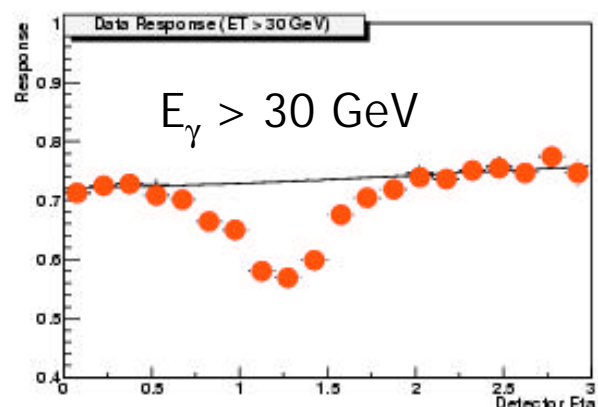
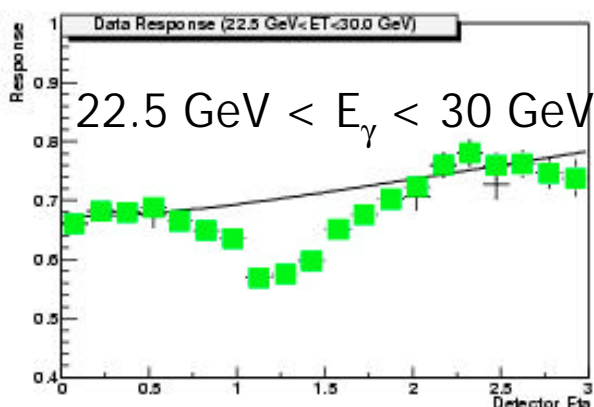
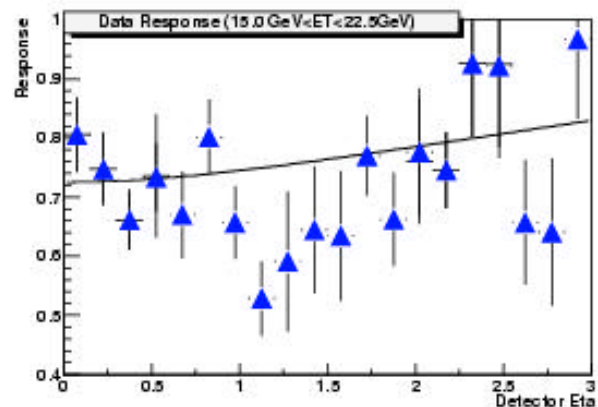
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ICR correction for p11.11

- Data Energy Bins with Cosh(E) fit overlaid

$15 \text{ GeV} < E_\gamma < 22.5 \text{ GeV}$

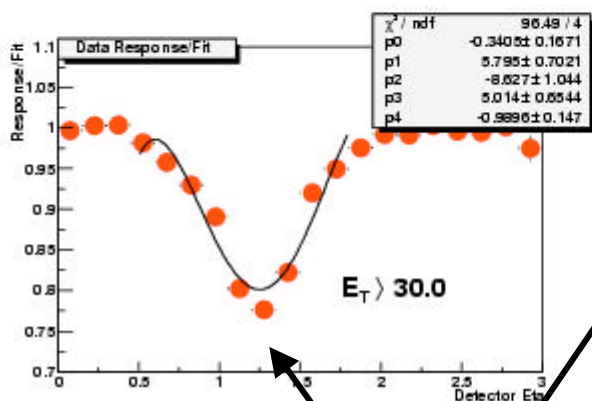
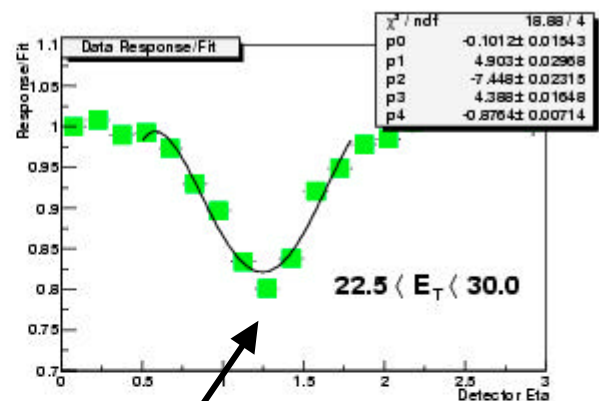
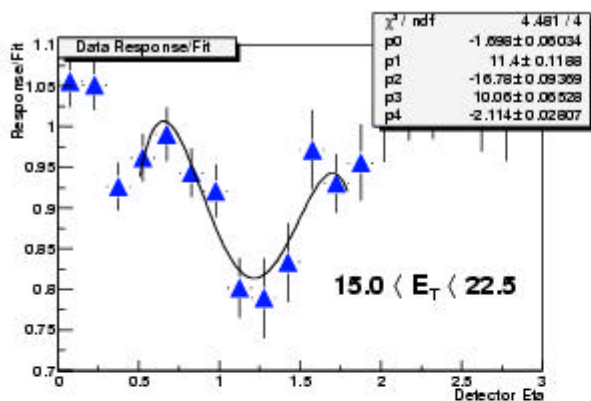


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ICR correction for p11.11

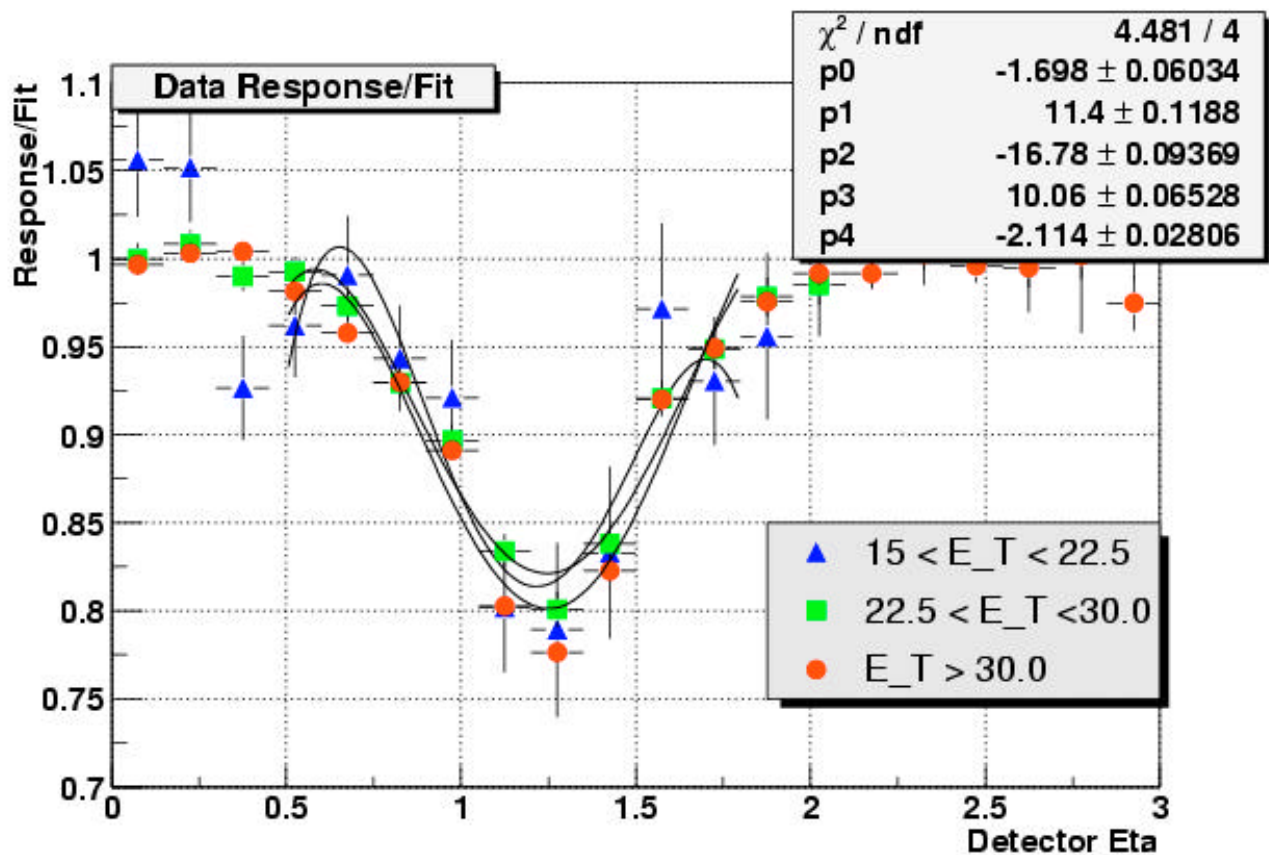
- ICR correction- Data/Cosh fit for each energy bin



Note low point is at
 $|\eta| \sim 1.3$

ICR correction for p11.11

■ ICR correction - usual analysis



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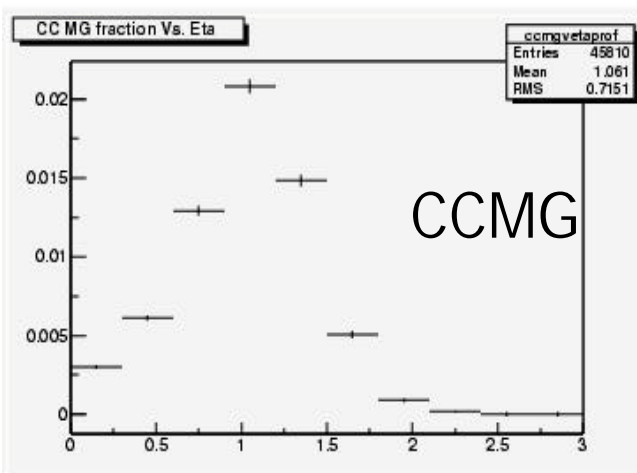
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ICR detectors - Jet Energy Fraction vs. η

CC MG

MaxF ~ 0.022

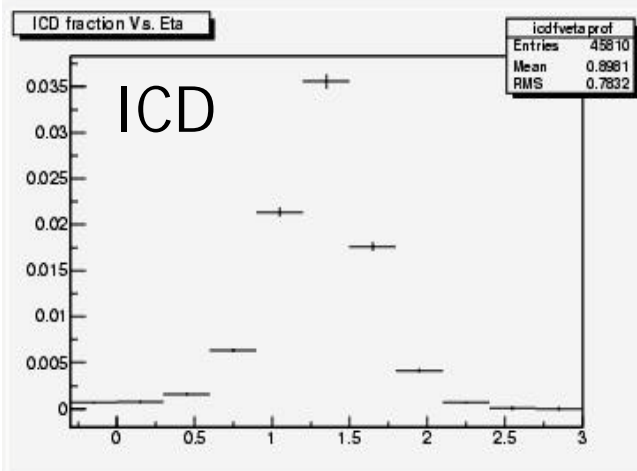
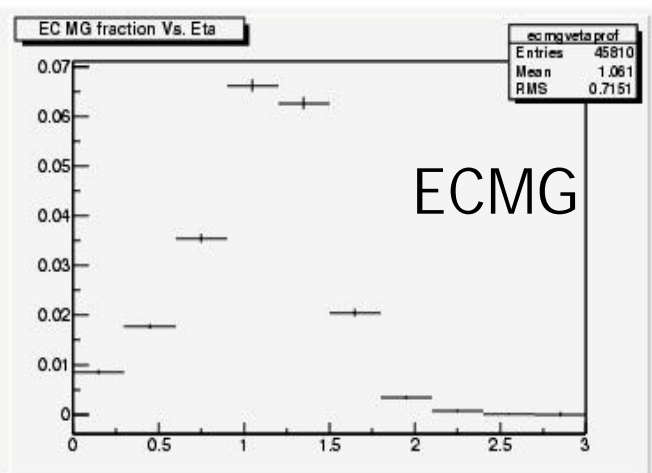
Max $|\eta| \sim 1.1$



EC MG

MaxF ~ 0.07

Max $|\eta| \sim 1.2$



ICD
MaxF ~ 0.037
Max $|\eta| \sim 1.4$

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ICR correction - Next Steps

Wrapup “the usual analysis” for v2.3

- Continue stripping p11.11 data
- Compare
 - $|h| < 0.8$ for the photon
 - $|h| > 1.8$ for the photon
- Need latest cryofactor/offset corrections (from p11.11) for consistency

Refinements

- Look at correcting the ICR region by correcting ICD/ECMG/CCMG separately
- Need p11.11 MC!
- Would like to incorporate results from MIP studies in gap detectors